SEQUENCE LISTING

<110> Schane Dale B. Bard, Frederique Yednock, Ted

<120> Prevention and Treatment of Amyloidogenic Disease

<130> 15270J-004760US

<140> US 09/580,018

<141> 2000-05-26

<150> US 09/322,289

<151> 1999-05-28

<160> 77

<170> PatentIn Ver. 2.1

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<210> 3

<211> 10

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<223> Description of Artificial Sequence:10-mer peptide from AN1792 sequence (human Abeta42, beta-amyloid peptide)

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<400> 3
Ile Ser Glu Val Lys Met Asp Ala Glu Phe
<210> 4
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<223> Description of Artificial Sequence:10-mer peptide
      from AN1792 sequence (human Abeta42, beta-amyloid
      peptide)
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 <210> 5
 <211> 10
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   <211> 10
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          from AN1792 sequence (human Abeta42, beta-amyloid
          peptide)
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<400> 7
Lys Met Asp Ala Glu Phe Arg His Asp Ser
                                    . 10
                  5
<210> 8
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<212> PRT
<213> Artificial Sequence
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 Met Asp Ala Glu Phe Arg His Asp Ser Gly
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  <220>
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        peptide)
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          peptide)
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<400> 11
Glu Phe Arg His Asp Ser Gly Tyr Glu Val
                  5
  1
<210> 12
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  <220>
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        peptide)
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                     5
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   <210> 15
   <211> 10
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         from AN1792 sequence (human Abeta42, beta-amyloid
         peptide)
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Asp Ser Gly Tyr Glu Val His His Gln Lys
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<210> 16
<211> 10
<212> PRT
<213> Artificial Sequence
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       peptide)
 Ser Gly Tyr Glu Val His His Gln Lys Leu
 <210> 17
 <211> 10
 <212> PRT
 <213> Artificial Sequence
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       from AN1792 sequence (human Abeta42, beta-amyloid
        peptide)
  <400> 17
  Gly Tyr Glu Val His His Gln Lys Leu Val
                    5
  <210> 18
  <211> 10
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence:10-mer peptide
        from AN1792 sequence (human Abeta42, beta-amyloid
        peptide)
   <400> 18
   Tyr Glu Val His His Gln Lys Leu Val Phe
                     5
   <210> 19
   <211> 10
   <212> PRT
   <213> Artificial Sequence
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<223> Description of Artificial Sequence:10-mer peptide

peptide)

from AN1792 sequence (human Abeta42, beta-amyloid

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Glu Val His His Gln Lys Leu Val Phe Phe
<400> 19
                  5
  1
<210> 20
<211> 10
<212> PRT
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       peptide)
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 Val His His Gln Lys Leu Val Phe Phe Ala
 <210> 21
 <211> 10
 <212> PRT
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        peptide)
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  His His Gln Lys Leu Val Phe Phe Ala Glu
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  <210> 22
  <211> 10
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   <220>
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         peptide)
   His Gln Lys Leu Val Phe Phe Ala Glu Asp
                     5
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   <210> 23
   <211> 10
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<223> Description of Artificial Sequence:10-mer peptide

from AN1792 sequence (human Abeta42, beta-amyloid

<220>

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<400> 23
Gln Lys Leu Val Phe Phe Ala Glu Asp Val
                  5
<210> 24
<211> 10
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence:10-mer peptide
       from AN1792 sequence (human Abeta42, beta-amyloid
       peptide)
 <400> 24
 Lys Leu Val Phe Phe Ala Glu Asp Val Gly
 <210> 25
 <211> 10
 <212> PRT
 <213> Artificial Sequence
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        from AN1792 sequence (human Abeta42, beta-amyloid
        peptide)
  <400> 25
  Leu Val Phe Phe Ala Glu Asp Val Gly Ser
  <210> 26
  <211> 10
  <212> PRT
  <213> Artificial Sequence
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         from AN1792 sequence (human Abeta42, beta-amyloid
         peptide)
   Val Phe Phe Ala Glu Asp Val Gly Ser Asn
                     5
     1
   <210> 27
    <211> 10
    <212> PRT
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    <223> Description of Artificial Sequence:10-mer peptide
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from AN1792 sequence (human Abeta42, beta-amyloid

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Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
<400> 27
<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence:10-mer peptide
      from AN1792 sequence (human Abeta42, beta-amyloid
      peptide)
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 <210> 29
 <211> 10
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 <220>
       from AN1792 sequence (human Abeta42, beta-amyloid
       peptide)
  <400> 29
 Ala Glu Asp Val Gly Ser Asn Lys Gly Ala
                    5
  <210> 30
  <211> 10
  <212> PRT
  <213> Artificial Sequence
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                     5
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   <210> 31
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   <213> Artificial Sequence
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<223> Description of Artificial Sequence:10-mer peptide

from AN1792 sequence (human Abeta42, beta-amyloid

<220>

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Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
                  5
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<211> 10
<212> PRT
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      peptide)
 Val Gly Ser Asn Lys Gly Ala Ile Ile Gly
                 5
   1
 <210> 33
 <211> 10
 <212> PRT
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  Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu
                    5
  <210> 34
  <211> 10
  <212> PRT
  <213> Artificial Sequence
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        from AN1792 sequence (human Abeta42, beta-amyloid
        peptide)
   <400> 34
   Ser Asn Lys Gly Ala Ile Ile Gly Leu Met
                     5
     1
   <210> 35
   <211> 10
   <212> PRT
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         from AN1792 sequence (human Abeta42, beta-amyloid
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<400> 35
Asn Lys Gly Ala Ile Ile Gly Leu Met Val
                  5
<210> 36
<211> 10
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence:10-mer peptide
       from AN1792 sequence (human Abeta42, beta-amyloid
       peptide)
 <400> 36
 Lys Gly Ala Ile Ile Gly Leu Met Val Gly
                   5
   1
 <210> 37
 <211> 10
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence:10-mer peptide
       from AN1792 sequence (human Abeta42, beta-amyloid
       peptide)
  <400> 37
  Gly Ala Ile Ile Gly Leu Met Val Gly Gly
                    5
  <210> 38
  <211> 10
  <212> PRT
  <213> Artificial Sequence
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        from AN1792 sequence (human Abeta42, beta-amyloid
        peptide)
   <400> 38
   Ala Ile Ile Gly Leu Met Val Gly Gly Val
                     5
     1
   <210> 39
   <211> 10
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence:10-mer peptide
         from AN1792 sequence (human Abeta42, beta-amyloid
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Cont.

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<400> 39
Ile Ile Gly Leu Met Val Gly Gly Val Val
                5
<210> 40
<211> 10
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence:10-mer peptide
      from AN1792 sequence (human Abeta42, beta-amyloid
      peptide)
Ile Gly Leu Met Val Gly Gly Val Val Ile
<210> 41
 <211> 10
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence:10-mer peptide
       from AN1792 sequence (human Abeta42, beta-amyloid
       peptide)
 <400> 41
 Gly Leu Met Val Gly Gly Val Val Ile Ala
                   5
 <210> 42
 <211> 42
 <212> PRT
 <213> Homo sapiens
  <220>
 <223> human Abeta42 beta-amyloid peptide
 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
  <400> 42
 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
                                   25
  Gly Leu Met Val Gly Gly Val Val Ile Ala
           35
  <210> 43
  <211> 13
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<212> PRT

<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence:influenza
      hemagglutinin HA-307-319 universal T-cell epitope
<400> 43
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
                  5
<210> 44
<211> 13
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: PADRE universal
       T-cell epitope
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 <221> misc_feature
 <222> (3)
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 Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
 <210> 45
 <211> 16
  <212> PRT
 <213> Artificial Sequence
  <223> Description of Artificial Sequence:malaria CS, T3
        epitope universal T-cell epitope
  Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn Val
                                        10
    1
  <210> 46
  <211> 10
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence:hepatitis B
         surface antigen HBsAg-19-28 universal T-cell
         epitope
   <400> 46
   Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
   <210> 47
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<211> 19 <212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:heat shock
     protein 65 hsp65-153-171 universal T-cell epitope
Asp Gln Ser Ile Gly Asp Leu Ile Ala Glu Ala Met Asp Lys Val Gly
Asn Glu Gly
<210> 48
 <211> 14
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence:bacille
 <220>
       Calmette-Guerin universal T-cell epitope
 Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu
                   5
   1
 <210> 49
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence:tetanus toxoid
        TT-830-844 universal T-cell epitope
  Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
                    5
    1
  <210> 50
  <211> 21
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence:tetanus toxoid
         TT-947-967 universal T-cell epitope
   Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
                                         10
     1
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Ala Ser His Leu Glu

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<210> 51
<211> 16
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence:HIV gp120 T1
<220>
      universal T-cell epitope
Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
                   5
 . 1
 <210> 52
 <211> 22
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: AN 90549 Abeta
        1-7/tetanus toxoid 830-844
  Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
    1
  Ile Gly Ile Thr Glu Leu
               20
  <210> 53
  <211> 28
  <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: AN 90550 Abeta
   <220>
         1-7/tetanus toxoid 947-967
   Asp Ala Glu Phe Arg His Asp Phe Asn Asn Phe Thr Val Ser Phe Trp
     1
   Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
    <210> 54
    <211> 43
    <212> PRT
    <213> Artificial Sequence
    <223> Description of Artificial Sequence: AN90542 Abeta
          1-7/tetanus toxoid 830-844 + 947-967
     Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
                     , 5
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Ile Gly Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu
Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
         35
<210> 55
<211> 22
<212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: AN 90576 Abeta
       3-9/tetanus toxoid 830-844
 Glu Phe Arg His Asp Ser Gly Gln Tyr Ile Lys Ala Asn Ser Lys Phe
                   5
 Ile Gly Ile Thr Glu Leu
               20
  <210> 56
  <211> 20
  <212> PRT
  <213> Artificial Sequence
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  <220>
        1-7/peptide
  <220>
  <221> misc_feature
  <222> (3)
  <223> Xaa = any amino acid
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                                         10
   Phe Arg His Asp
                20
   <210> 57
   <211> 34
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: AN90543 Abeta
         1-7 \times 3/peptide
    <220>
    <221> misc_feature
    <222> (24)
    <223> Xaa = any amino acid
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Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala 5

Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala

Ala Ala

<210> 58

<211> 34 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

<220>

<221> misc_féature

<222> (3)

<223> Xaa = any amino acid

Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala Asp Ala Glu

Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg

His Asp

<210> 59

<211> 20

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

<220>

<221> misc_feature

<222> (10)

<223> Xaa = any amino acid

Asp Ala Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu

Lys Ala Ala Ala

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<210> 60
<211> 24
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: fusion protein
      with Abeta epitope
Asp Ala Glu Phe Arg His Asp Ile Ser Gln Ala Val His Ala Ala His
                                      10
Ala Glu Ile Asn Glu Ala Gly Arg
              20
 <210> 61
 <211> 24
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: fusion protein
       with Abeta epitope
 Phe Arg His Asp Ser Gly Tyr Ile Ser Gln Ala Val His Ala Ala His
 Ala Glu Ile Asn Glu Ala Gly Arg
               20
  <210> 62
  <211> 24
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: fusion protein
  <220>
        with Abeta epitope
  Glu Phe Arg His Asp Ser Gly Ile Ser Gln Ala Val His Ala Ala His
                                        10
  Ala Glu Ile Asn Glu Ala Gly Arg
                20
   <210> 63
   <211> 34
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: fusion protein
         with Abeta epitope
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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr Asp Ala Glu

Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg 25

His Asp

<210> 64 <211> 27

<212> PRT <213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu 10

Lys Leu Ala Thr Asp Ala Glu Phe Arg His Asp

<210> 65

<211> 34

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala 10

Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu

Ala Thr

<210> 66

<211> 27

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Pro Lys

Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr 20

<210> 67

<211> 79

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu

Lys Leu Ala Thr Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser

Val Phe Asn Val Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile

Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro

Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe Arg His Asp 70

<210> 68

<211> 57

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala 1

Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly

Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val 40

Pro Lys Val Ser Ala Ser His Leu Glu 50

<210> 69

<211> 44

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: fusion protein with Abeta epitope

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu 35 40

<210> 70 <211> 51 <212> PRT <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: fusion protein with Abeta epitope

<400> 70
Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
1 10 15

Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp 25 30

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe 35

Arg His Asp 50

<210> 71 <211> 26 <212> PRT <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synuclein fusion protein

<400> 71
Glu Gln Val Thr Asn Val Gly Gly Ala Ile Ser Gln Ala Val His Ala
1 10 15

Ala His Ala Glu Ile Asn Glu Ala Gly Arg 20 25

<210> 72 <211> 13 <212> PRT <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Abeta 1-12
peptide with inserted Cys residue

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<400> 72
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val Cys
                                    ..10
                5
<210> 73
<211> 6
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Abeta 1-5
      peptide with inserted Cys residue
 <400> 73
 Asp Ala Glu Phe Arg Cys
   1
 <210> 74
 <211> 12
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Abeta 33-42
       peptide with inserted Cys residue
  <220>
  <221> MOD RES
  <222> (2)
  <223> Xaa = amino-heptanoic acid
  <400> 74
  Cys Xaa Gly Leu Met Val Gly Gly Val Val Ile Ala
              . 5
    1
  <210> 75
  <211> 19
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: Abeta 13-28
         peptide with two Gly residues added and inserted
         Cys residue
   <220>
   <221> MOD_RES
   <222> (1)
   <223> Xaa = N-acetyl His
   Xaa His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
                                         10
                    5
     1
   Gly Gly Cys
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Ile Gly Ile Thr Glu Leu